

ABSTRACT

A hollow portion (7) of a spindle 5 through which a draw bar (9) and a disc spring assembly (11) are inserted  
5 has a closed chamber structure and constitutes an oil pool chamber in which a lubricating oil is filled. The bearing portions (21, 39) for supporting the draw bar (9) in the oil pool on both sides thereof have the same inner diameter so that the volume of the oil pool chamber does  
10 not change when the draw bar (9) is moved forward and backward. As a result, the lubricating oil is not pushed out of the oil pool chamber. Thus, a spindle unit can be provided in which a clamping means, consisting of the draw bar (9) and the disc spring assembly (11), for  
15 clamping a tool or a workpiece pallet at the forward end of the spindle can be reliably lubricated, so that the friction on and the breakage of the clamping means is reduced and that the service life of the unit is lengthened.